

U.S.S.N. 09/848,397

In The Claims

Claim 1. - 24. (Cancelled)

Claim 25. (previously presented) A fuel cell system, comprising:
a source of a hydrogen fuel;
a CO removal system using non-Faradaic electrochemical
modification of catalyst activity, said removal system including a
working electrode, an electrolyte, a counter electrode, and a
power source, wherein said working electrode includes a catalyst
selected from the group consisting of -

- (a) Cu/ZnO
- (b) Cu/CuO
- (c) ABO₃
- (d) zeolite; and,

a fuel stack.

Claim 26. (previously presented) The fuel cell system of claim
25 wherein said removal system provides dynamic response over a
temperature range from 0 to 800 degrees Celsius.

Claim 27. (previously presented) The fuel cell system of claim
25 wherein the catalyst is a layer of material formed on the
working electrode.

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Claim 28. (previously presented) The fuel cell system of claim 25, wherein the power source is a DC battery.

Claim 29. (previously presented) The fuel cell system of claim 25, wherein the working electrode and the counter electrode are coupled in series with the power source, such that current flows between the working electrode and the counter electrode.